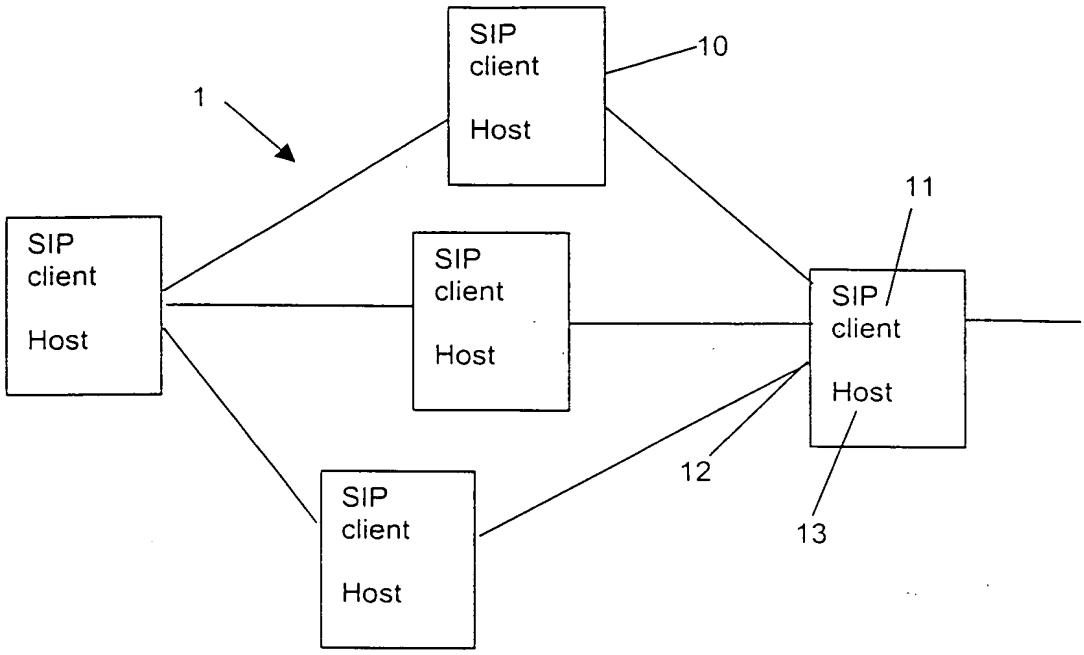

Figure 1

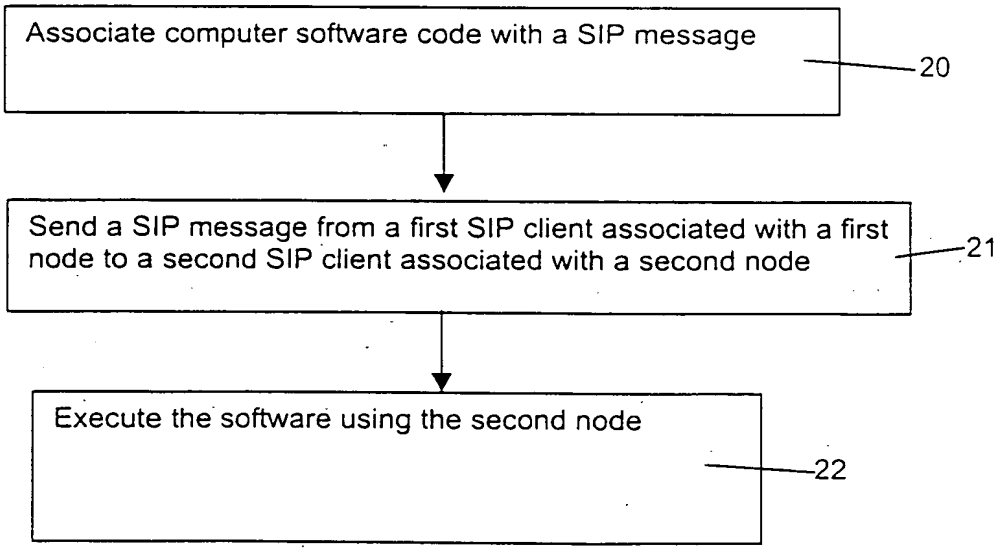

Figure 2

GB2405059A

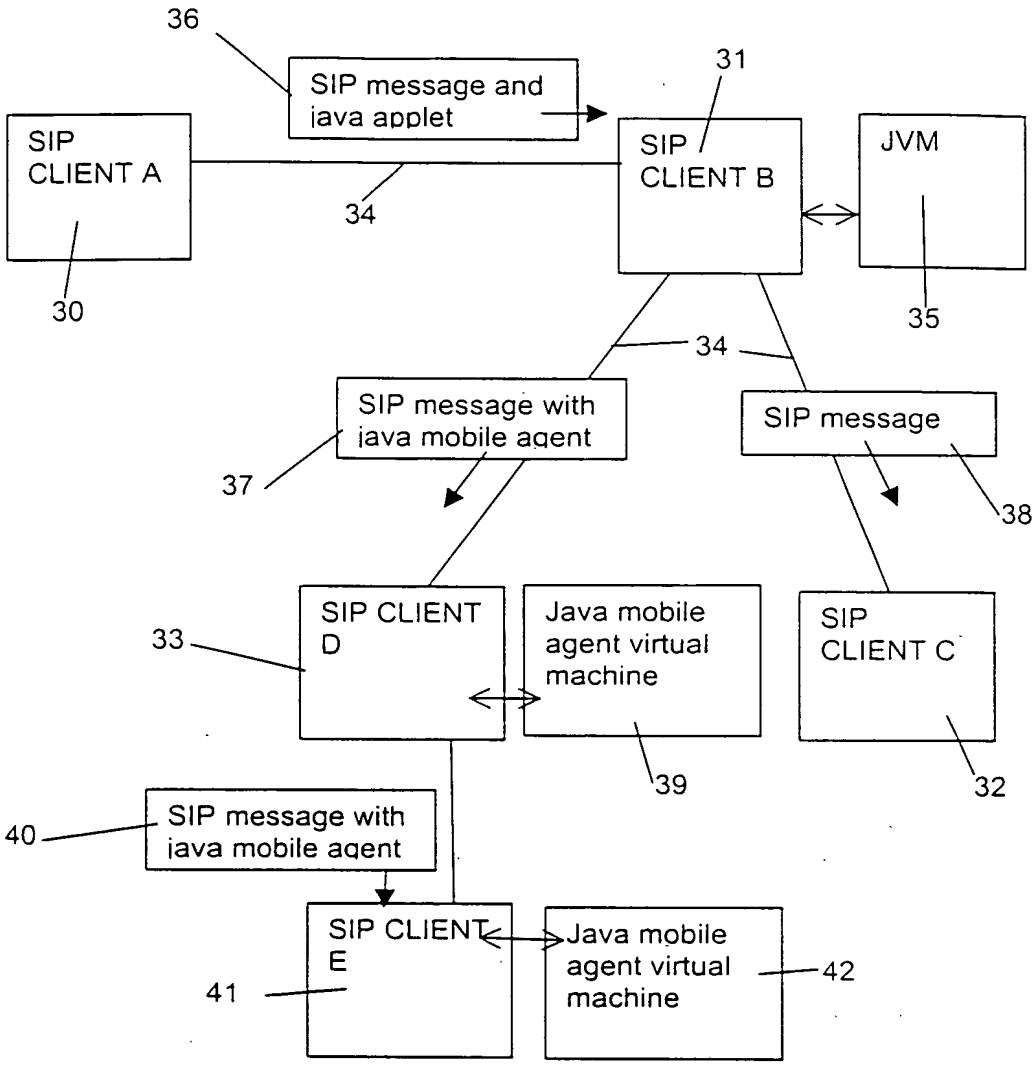

Figure 3

09/30/2005 15:28:55

C ->S: INVITE sip:watson@boston.bell-tel.com SIP/2.0
Via: SIP/2.0/UDP kton.bell-tel.com>
From: A. Bell ,sip:a.g.bell@bell-tel.com>
To: T. Watson ,sip:watson@bell-tel.com.
Call-ID: 3298420296@kton.bell.tel.com
Cseq: 1 INVITE
Subject: Mr. Watson, come here.
Content-Type: multipart/mixed; boundary=3E4A567F4C8A
(or URL for java applet)
Content-Length: ...
Require: org.ietf.sip.java-enhanced-sip

(Within the message body)

--3E4A567F4C8A
Content-Type: application/x-sipjava
Content-Encoding: binary
Content-length: xxx
...Java applet or Java mobile agent for SIP message processing...
--3E4A567F4C8A—

50

Figure 5

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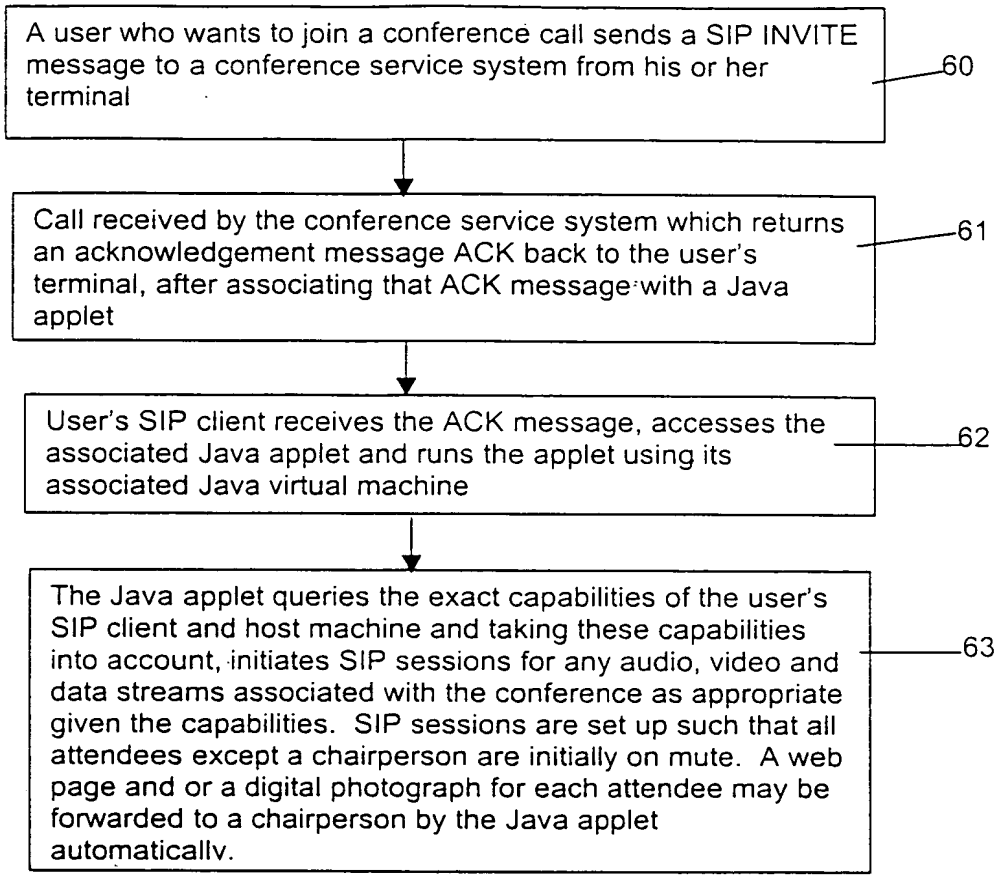

Figure 6

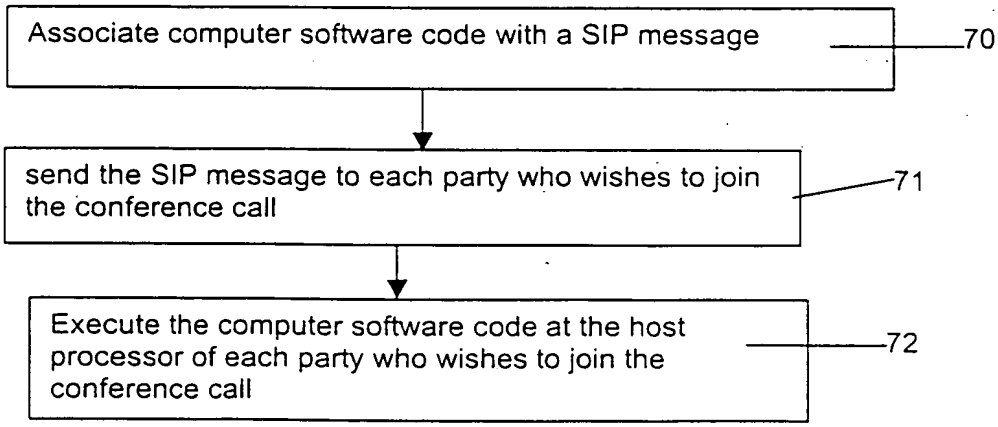

Figure 7

GB2389759

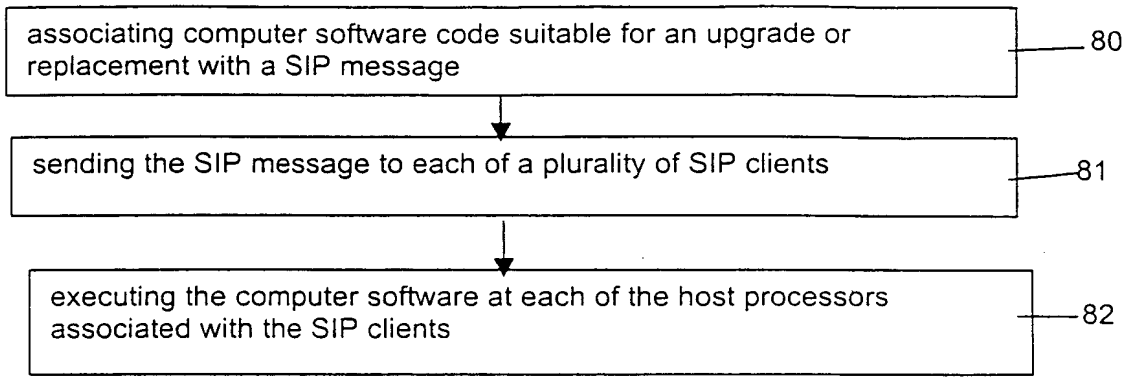

Figure 8

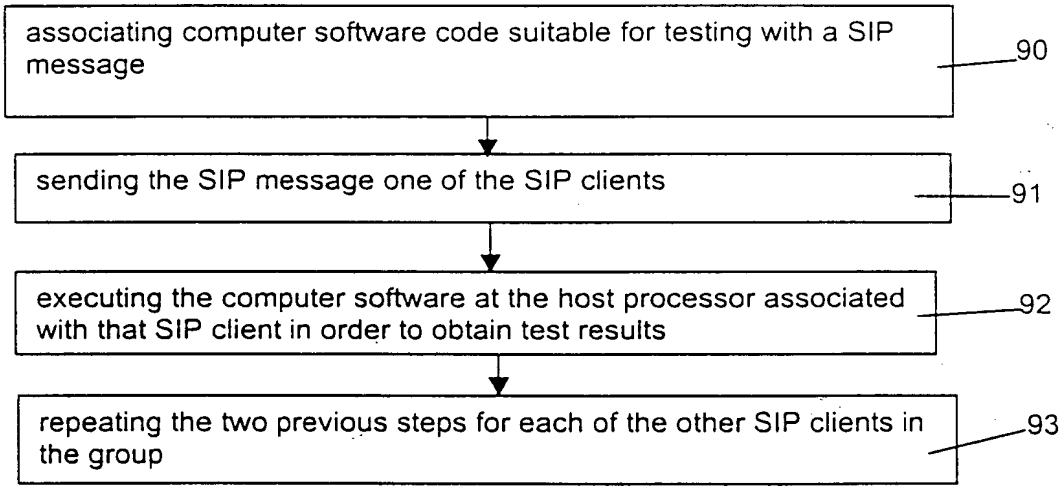

Figure 9

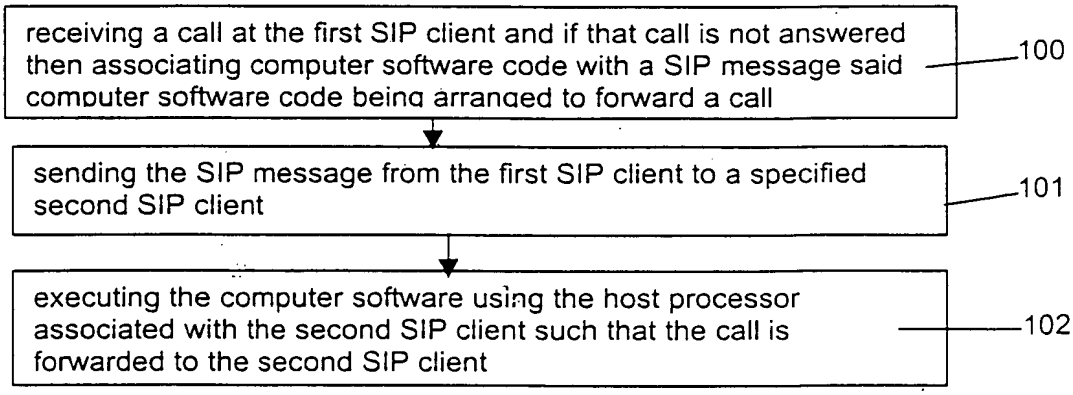

Figure 10

GB 2 403 369 A 050525

```
Request  =  Request-Line                ;
            *( general-header           }
            | request-header            }
            | entity-header )           }  40
            CRLF                        }
            [ message-body ]    ;       }
```

```
general-header   =  Accept                  ;   }
                 |  Accept-Encoding         ;   }
                 |  Accept-Language         ;   }
                 |  Call-ID                 ;   }
                 |  Contact                 ;   }
                 |  CSeq                    ;   }
                 |  Date                    ;   }
                 |  Encryption              ;   }  41
                 |  Expires                 ;   }
                 |  From                    ;   }
                 |  Record-Route            ;   }
                 |  Timestamp               ;   }
                 |  To                      ;   }
                 |  Via                     ;   }
entity-header    =  Content-Encoding        ;   }
                 |  Content-Length          ;   }  42
                 |  Content-Type            ;   }  < ---- This will indicate that the
request-header   =  Authorization           ;       content type is a java applet
                 |  Contact                 ;       or a Java Mobile Agent (or the
                 |  Hide                    ;       URL of a location of either
                 |  Max-Forwards            ;   }   from where they must be
                 |  Organization            ;   }   retrieved).
                 |  Priority                ;   }
                 |  Proxy-Authorization     ;   }
                 |  Proxy-Require           ;   }
                 |  Route                   ;   }
                 |  Require                 ;   }  < ----- This will be used to indicate
                 |  Response-Key            ;   }          that Java-enhanced-SIP must
                 |  Subject                 ;   }  43       be supported to process this
                 |  User-Agent              ;   }          message.
response-header  =  Allow                   ;   }
                 |  Proxy-Authenticate      ;   }
                 |  Retry-After             ;   }
                 |  Server                  ;   }  44
                 |  Unsupported             ;   }
                 |  Warning                 ;   }
                 |  WWW-Authenticate        ;   }
```

FIGURE 4

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